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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/450,716	11/30/1999	FRANCOIS THOUMY	1807-0906	8048	
5514	7590 06/12/2003				
FITZPATRICK CELLA HARPER & SCINTO			EXAMINER		
30 ROCKEFF NEW YORK,	ELLER PLAZA , NY 10112			TRAN, KHAI	
			ART UNIT	PAPER NUMBER	
			2631	8	
			DATE MAILED: 06/12/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/450,716	THOUMY ET AL.				
Office Action Summary	Examiner	Art Unit				
	KHAI TRAN	2631	1-1			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on <u>04 A</u>	<u>pril 2003</u> .					
2a) This action is FINAL . 2b) ⊠ This	s action is non-fina	ıl.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) Claim(s) 1-104 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-104</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:	,					
1.☐ Certified copies of the priority documents	have been receiv	ed.				
2. Certified copies of the priority documents have been received in Application No						
 Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 N	nterview Summary (PTO-413) Paper Notice of Informal Patent Application (Pother:				

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DETAILED ACTION

1. The following guidelines illustrate the preferred layout and content for patent applications. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

The following order or arrangement is preferred in framing the specification and, except for the reference to "Microfiche Appendix" and the drawings, each of the lettered items should appear in upper case, without underlining or bold type, as section headings. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) Title of the Invention.
- (b) Cross-References to Related Applications.
- © Statement Regarding Federally Sponsored Research or Development.
- (d) Reference to a "Microfiche Appendix" (see 37 CFR 1.96).
- (e) Background of the Invention.
 - 1. Field of the Invention.
 - 2. Description of the Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (f) Brief Summary of the Invention.
- (g) Brief Description of the Several Views of the Drawing(s).
- (h) Detailed Description of the Invention.
- (I) Claim or Claims (commencing on a separate sheet).
- (j) Abstract of the Disclosure (commencing on a separate sheet).
- (k) Drawings.
- (I) Sequence Listing (see 37 CFR 1.821-1.825).

Content of Specification

- (a) <u>Title of the Invention</u>: See 37 CFR 1.72(a). The title of the invention should be placed at the top of the first page of the specification. It should be brief but technically accurate and descriptive, preferably from two to seven words.
- (b) <u>Cross-References to Related Applications</u>: See 37 CFR 1.78 and MPEP § 201.11.

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© <u>Statement Regarding Federally Sponsored Research and Development:</u> See MPEP § 310.

- (d) Reference to a "Microfiche Appendix": See 37CFR 1.96© and MPEP § 608.05. The total number of microfiche and the total number frames should be specified.
- (e) <u>Background of the Invention</u>: The specification should set forth the Background of the Invention in two parts:
 - (1) Field of the Invention: A statement of the field of art to which the invention pertains. This statement may include a paraphrasing of the applicable U.S. patent classification definitions of the subject matter of the claimed invention. This item may also be titled "Technical Field."
 - (2) <u>Description of the Related Art</u>: A description of the related art known to the applicant and including, if applicable, references to specific related art and problems involved in the prior art which are solved by the applicant's invention. This item may also be titled "Background Art."
- (f) Brief Summary of the Invention: A brief summary or general statement of the invention as set forth in 37 CFR 1.73. The summary is separate and distinct from the abstract and is directed toward the invention rather than the disclosure as a whole. The summary may point out the advantages of the invention or how it solves problems previously existent in the prior art (and preferably indicated in the Background of the Invention). In chemical cases it should point out in general terms the utility of the invention. If possible, the nature and gist of the invention or the inventive concept should be set forth. Objects of the invention should be treated briefly and only to the extent that they contribute to an understanding of the invention.
- (g) <u>Brief Description of the Several Views of the Drawing(s)</u>: A reference to and brief description of the drawing(s) as set forth in 37 CFR 1.74.
- (h) <u>Detailed Description of the Invention</u>: A description of the preferred embodiment(s) of the invention as required in 37 CFR 1.71. The description should be as short and specific as is necessary to describe the invention adequately and accurately. This item may also be titled "Best Mode for Carrying Out the Invention." Where elements or groups of

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elements, compounds, and processes, which are conventional and generally widely known in the field of the invention described and their exact nature or type is not necessary for an understanding and use of the invention by a person skilled in the art, they should not be described in detail. However, where particularly complicated subject matter is involved or where the elements, compounds, or processes may not be commonly or widely known in the field, the specification should refer to another patent or readily available publication which adequately describes the subject matter.

- (I) Claim or Claims: See 37 CFR 1.75 and MPEP § 608.01(m). The claim or claims must commence on separate sheet. (37 CFR 1.52(b)). Where a claim sets forth a plurality of elements or steps, each element or step of the claim should be separated by a line indentation. There may be plural indentations to further segregate subcombinations or related steps.
- (j) <u>Abstract of the Disclosure</u>: A brief narrative of the disclosure as a whole in a single paragraph of 250 words or less on a separate sheet following the claims.
- (k) <u>Drawings</u>: See 37 CFR 1.81, 1.83-1.85, and MPEP § 608.02.
- (I) <u>Sequence Listing</u>: See 37 CFR 1.821-1.825.

Drawings

2. The drawings are objected to because all of boxes in the Figures must be labeled.

Correction is required.

Claim Rejections - 35 USC § 112

3. Claims 1-104 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 1:

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line 1, the term "multicarrier-type" lacks antecedent basis.

lines 3-4, the term "the transmission quality" lacks antecedent basis.

lines 9-10, the term "the order" lacks antecedent basis.

line 11, the term "the significance" lacks antecedent basis.

Regarding claim 4:

line 2, the term "the sub-carriers" lacks antecedent basis.

line 6, the term "the order" lacks antecedent basis.

Regarding claim 6:

line 1, the term "it" is not clear to what it refers; also it is not clear what is the term "premodulator"?.

line 3, the term "the modulator" lacks antecedent basis; the term "the different inputs" also lacks antecedent basis.

line 6, the term "the"outward" lacks antecedent basis.

line 9, the term "the data" is not clear to what it refers.

lines 9-10, the term "the return" lacks antecedent basis.

line 11, the term "the data" is not clear to what it refers.

lines 16-17, the term "the demodulator" lacks antecedent basis; what is an FCD signal?.

line 20, the term "said signal being generated by the remote device B" is not clear where is the signal previously generated by the remote device B.

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line 21, the term "the transmission channel" lacks antecedent basis.

line 25, the term "a signal" is not clear to what ir refers?.

Regarding claim 7:

line 1, the term "either one of claim 6" is not clear?.

Regarding claim 8:

line 8, the term "the source" lacks antecedent basis.

Regarding claim 9:

line 4, the term "the DS" lacks antecedent basis.

Regarding claim 10:

line 7, the term "the indices" lacks antecedent basis.

line 10, the term "the relative positions" lacks antecedent basis.

line 12, the term "the data allocation command signal" lacks antecedent

basis.

Regarding claim 11:

lines 3-4, the term "the data allocation command signal" lacks antecedent basis.

Claims 13-21, the term "it" is not clear to what it refers?.

Regarding claim 22:

line 2, the term "a significance" is vague and indefinite.

lines 4 and 5, the term "the bit rate or the bit error rate" line 12, the term "the data allocation command signal" lacks antecedent basis.

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line 5, the term "the said data belongs" lacks antecedent basis.

Claims 22-23, the claims are narrative in form and do not positively recited steps of a specific process. Note that method claims should set forth a series of steps in the active tense in an instruction like manner thereby reciting an actual method.

Dependent claims should further limit base claims by reciting additional steps in a likewise fashion Exparte Erlicks 3USPQ2d 1011 at 1017 [7]. Furthermore, the structure in the claims must be organized and correlated in such a manner as to present a complete operative device.

Regarding claim 24, line 11-18, it does not contain any recited steps.

Therefore, claims 1-104 contain numerous antecedent basis problems and unclear recitation apparently resulting from translation. The intended limitations of these claims, therefore, cannot be distinguished with any accuracy. Applicant is advised to carefully review and rephrase the claims 1-104, . Hence, there is no art rejection made in this Office Action.

Conclusion

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231 or faxed to:

(703) 308-9051, (for formal communications intended for entry)

or:

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(703) 308-6743, (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Khai Tran** whose telephone number is **(703) 305-1876.** The examiner can normally be reached on Monday-Thursday from 9:00 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Chi Pham**, can be reached on **(703) 305-4378**.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-4900.

Mongranter Khai Tran

Patent Examiner

KT June 10, 2003